•	Application No.	Applicant(s)	
Notice of Allowability	Application No.	Applicant(s)	
	10/622,923	BAECKLER ET AL.	
	Examiner	Art Unit	
	Suchin Parihar	2825	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commining IGHTS. This application is:	n this application. If not included unication will be mailed in due course. TH	IIS tiative
1. This communication is responsive to <u>amendment filed 9/27</u>	<u>7/2007</u> .		
2. X The allowed claim(s) is/are 2,3,5-13 and 15-22.			
 3. ☐ Acknowledgment is made of a claim for foreign priority unallocation. a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	- ,,,,,	or (f).	
Certified copies of the priority documents have	been received in Application	n No	
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from th	ne
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF declaration is deficient.	:
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		(
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the header according to 37 CF	ne drawings in the front (not the back) of R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT INFORMATION. 	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	E MARIA -CO	Formal Datast Assissa	
		formal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper No./	ummary (PTO-413), Mail Date Amendment/Comment	
Paper No./Mail Date			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance	
· 68		- ,	
PAUL DINH PRIMARY EXAMINER	e Dinh		

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DETAILED ACTION

Reasons For Allowance

- The following is an examiner's statement of reasons for allowance:
 Claims 2-3, 5-13 and 15-22 are allowed because the prior art made of record does not teach or suggest a method/computer-program-product for combining lookup tables
 (LUTs) in a design for a programmable integrated circuit in the manner as recited in the claims.
- 2. With respect to claims 2-3 and 7-13, the prior art fails to teach the combination of steps in claim 2 including the following particular steps as recited in claim 2:

arranging an order of input signals of one of the LUTs so that each of the common input signals is applied to a corresponding input terminal in both of the LUTs to provide a first arranged order of input signals;

wherein the method determines whether the LUTs implement the same function based on the first arranged order of the input signals.

3. With respect to claims 5-6, the prior art fails to teach the combination of steps in claim 5 including the following particular steps as recited in claim 5:

If the LUTs implement the same function with the first rearranged order, combining the masks of the LUTs into a shared LUT mask in the design;

If the LUTs do not implement the same function with the first rearranged order, rearranging the order of at least two input signals of the first LUT with respect to the input terminals of the first LUT to provide a second rearranged order.

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4. With respect to claims 15-22, the prior art fails to teach the combination of steps in claim 20 including the following particular steps as recited in claim 20:

code for determining if the LUTs have no more than M unique input signals; wherein implementation of the code for comparing the output values of the first and second LUTs is prevented if the first and second LUTs have less than N common input signals or more than M unique input signals.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suchin Parihar whose telephone number is 571-272-6210. The examiner can normally be reached on Mon-Fri, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Suchin Parihar

Examiner AU 2825

PAUL DINH PRIMARY EXAMINER

Paul Pinh